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Efficiency and Reliability of Ambiguity Resolution in Network-Based Real-Time Kinematic GPS — Dorota A. Grejner-Brzezinska, Israel Kashani, Pawel Wielgosz, Dru A. Smith, Paul S. J. Spencer, Douglas S. Robertson, and Gerald L. Mader; 133 (2), 56-65 (2007).

Maruyama, Kyuichi
Development of a New Generation Imaging Total Station System — Ritsuo Sakimura and Kyuichi Maruyama; 133 (1), 14-22 (2007).

Massalski, Darek
Comparisons of GPS-Derived Orthometric Heights Using Local Geometric Geoid Models — Michele Diane Tranes, Thomas Henry Meyer, and Darek Massalski; 133 (1), 6-13 (2007).

Meyer, Thomas Henry
Comparisons of GPS-Derived Orthometric Heights Using Local Geometric Geoid Models — Michele Diane Tranes, Thomas Henry Meyer, and Darek Massalski; 133 (1), 6-13 (2007).

Mohino, Elsa
Improving Long Baseline (100–300 km) Differential GPS Positioning Applying Ionospheric Corrections Derived from Multiple Reference Stations — Elsa Mohino, Mauricio Gende, and Claudio Brunini; 133 (1), 1-5 (2007).

Monserrat, Oriol
Two Radar Interferometric Approaches to Monitor Slow and Fast Land Deformation — Erlinda Biescas, Michele Crosetto, Marta Agudo, Oriol Monserrat, and Bruno Crippa; 133 (2), 66-71 (2007).

Nassar, Sameh
Land-Vehicle INS/GPS Accurate Positioning during GPS Signal Blockage Periods — Sameh Nassar, Xiaoji Niu, and Naser El-Sheimy; 133 (3), 134-43 (2007).

Niu, Xiaoji
Land-Vehicle INS/GPS Accurate Positioning during GPS Signal Blockage Periods — Sameh Nassar, Xiaoji Niu, and Naser El-Sheimy; 133 (3), 134-43 (2007).

Ou, Ji-Kun
Quasi-Accurate Detection of Outliers for Correlated Observations — Jian-Feng Guo, Ji-Kun Ou, and Hai-Tao Wang; 133 (3), 129-33 (2007).

Robertson, Douglas S.
Efficiency and Reliability of Ambiguity Resolution in Network-Based Real-Time Kinematic GPS — Dorota A. Grejner-Brzezinska, Israel Kashani, Pawel Wielgosz, Dru A. Smith, Paul S. J. Spencer, Douglas S. Robertson, and Gerald L. Mader; 133 (2), 56-65 (2007).

Rodríguez-Pérez, José R.
Assessment of Low-Cost GPS Receiver Accuracy and Precision in Forest Environments — José R. Rodríguez-Pérez, M. F. Álvarez, and Enoc Sanz-Ablanedo; 133 (4), 159-67 (2007).

Ruland, Robert
SLAC Vertical Comparator for the Calibration of Digital Levels — Helmut Woschitz, Georg Gassner, and Robert Ruland; 133 (3), 144-50 (2007).

Sakimura, Ritsuo
Development of a New Generation Imaging Total Station System — Ritsuo Sakimura and Kyuichi Maruyama; 133 (1), 14-22 (2007).

Sanz-Ablanedo, Enoc
Assessment of Low-Cost GPS Receiver Accuracy and Precision in Forest Environments — José R. Rodríguez-Pérez, M. F. Álvarez, and Enoc Sanz-Ablanedo; 133 (4), 159-67 (2007).

Sauermann, Knud
Geodetic Determination of Radio Telescope Antenna Reference Point and Rotation Axis Parameters — Stefan Leinen, Matthias Becker, John Dow, Joachim Feltens, and Knud Sauermann; 133 (2), 41-51 (2007).

Schaffrin, Burkhard
GPS-Network Analysis with BLIMPBE: An Alternative to Least-Squares Adjustment for Better Bias Control — Kyle Snow and Burkhard Schaffrin; 133 (3), 114-22 (2007).

Sevilla, Miguel J.
Influence of the Cutoff Angle and the Bearing in High-Precision GPS Vector Determination — Joaquín Zurutuza and Miguel J. Sevilla; 133 (2), 90-4 (2007).

Shen, Y. Z.
Regularized Solution to Fast GPS Ambiguity Resolution — Y. Z. Shen and B. F. Li; 133 (4), 168-72 (2007).

Smith, Dru A.
Efficiency and Reliability of Ambiguity Resolution in Network-Based Real-Time Kinematic GPS — Dorota A. Grejner-Brzezinska, Israel Kashani, Pawel Wielgosz, Dru A. Smith, Paul S. J. Spencer, Douglas S. Robertson, and Gerald L. Mader; 133 (2), 56-65 (2007).

Snow, Kyle
GPS-Network Analysis with BLIMPBE: An Alternative to Least-Squares Adjustment for Better Bias Control — Kyle Snow and Burkhard Schaffrin; 133 (3), 114-22 (2007).

Soler, Tomás
Practitioner's Forum Revisited — Tomás Soler; 133 (3), 95 (2007).

Spencer, Paul S. J.
Efficiency and Reliability of Ambiguity Resolution in Network-Based Real-Time Kinematic GPS — Dorota A. Grejner-Brzezinska, Israel Kashani, Pawel Wielgosz, Dru A. Smith, Paul S. J. Spencer, Douglas S. Robertson, and Gerald L. Mader; 133 (2), 56-65 (2007).

Sray, Mark
Using a Global Positioning System to Measure Tidal Currents in Absecon Inlet, Atlantic City, N.J. — J. Richard Weggel, James K. Walz, Joseph Lomax, and Mark Sray; 133 (4), 179-83 (2007).

Tranes, Michele Diane
Comparisons of GPS-Derived Orthometric Heights Using Local Geometric Geoid Models — Michele Diane Tranes, Thomas Henry Meyer, and Darek Massalski; 133 (1), 6-13 (2007).

Walz, James K.
Using a Global Positioning System to Measure Tidal Currents in Absecon Inlet, Atlantic City, N.J. — J. Richard Weggel, James K. Walz, Joseph Lomax, and Mark Sray; 133 (4), 179-83 (2007).

Wang, Hai-Tao
Quasi-Accurate Detection of Outliers for Correlated Observations — Jian-Feng Guo, Ji-Kun Ou, and Hai-Tao Wang; 133 (3), 129-33 (2007).

Watson, Christopher
Structural Monitoring of Cable-Stayed Bridge: Analysis of GPS versus Modeled Deflections — Christopher Watson, Tim Watson, and Richard Coleman; 133 (1), 23-8 (2007).

Watson, Tim
Structural Monitoring of Cable-Stayed Bridge: Analysis of GPS versus Modeled Deflections — Christopher Watson, Tim Watson, and Richard Coleman; 133 (1), 23-8 (2007).

Weggel, J. Richard
Using a Global Positioning System to Measure Tidal Currents in Absecon Inlet, Atlantic City, N.J. — J. Richard Weggel, James K. Walz, Joseph Lomax, and Mark Sray; 133 (4), 179-83 (2007).

Wielgosz, Pawel
Efficiency and Reliability of Ambiguity Resolution in Network-Based Real-Time Kinematic GPS — Dorota A. Grejner-Brzezinska, Israel Kashani, Pawel Wielgosz, Dru A. Smith, Paul S. J. Spencer, Douglas S. Robertson, and Gerald L. Mader; 133 (2), 56-65 (2007).

Woschitz, Helmut
SLAC Vertical Comparator for the Calibration of Digital Levels — Helmut Woschitz, Georg Gassner, and Robert Ruland; 133 (3), 144-50 (2007).

Zurutuza, Joaquín
Influence of the Cutoff Angle and the Bearing in High-Precision GPS Vector Determination — Joaquín Zurutuza and Miguel J. Sevilla; 133 (2), 90-4 (2007).